

Технические характеристики на преобразователи напряжения DC/DC серии DPX

По вопросам продаж и поддержки обращайтесь:

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Брянск (4832)59-03-52
Вологда (8172)26-41-59
Иваново (4932)77-34-06
Калининград (4012)72-03-81
Киров (8332)68-02-04
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Москва (495)268-04-70
Нижний Новгород (831)429-08-12
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Владивосток (423)249-28-31
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Новокузнецк (3843)20-46-81
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Сочи (862)225-72-31
Томск (3822)98-41-53
Ульяновск (8422)24-23-59
Череповец (8202)49-02-64

Белгород (4722)40-23-64
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Екатеринбург (343)384-55-89
Казань (843)206-01-48
Кемерово (3842)65-04-62
Красноярск (391)204-63-61
Магнитогорск (3519)55-03-13
Набережные Челны (8552)20-53-41
Новосибирск (383)227-86-73
Пенза (8412)22-31-16
Рязань (4912)46-61-64
Саратов (845)249-38-78
Ставрополь (8652)20-65-13
Тула (4872)74-02-29
Уфа (347)229-48-12
Ярославль (4852)69-52-93



DPX15W Series

Single and Dual Output 15W Din Rail Mount
DC-DC Converters

- Single and dual output
- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX15W Features and Benefits

Features

- CE Approvals
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

ITEMS	DPX15W	
Rated Input voltage range	24V nominal input 9.5-36VDC	48V nominal input 18-75VDC
Switching Frequency	400kHz, typ	
Maximum Input Current	See Table	
Input Fuse	24V input, 6A Fuse	48V input, 4A fuse
Max Output Power (W)	See Table	
Voltage Accuracy	Single/Dual $\pm 1.2\%$ / Single (3.3V) $\pm 2.0\%$	
Line Regulation (LL to HL at full load)	Single $\pm 0.2\%$ / Dual 0.5%	
Ripple and Noise	20MHz bandwidth	See table
Start up time (Nominal Vin and constant resistive load)	Power up 100mS, typ	
Remote on/off (option) (Note 2)	POSITIVE logic: ON: Open or 3-12V, OFF Short or <1.2V NEGATIVE logic: ON: Short or <1.2V, OFF Open or 3-12V	
Efficiency	See Table	
Over Current Protection, Factory Set	Maximum, 150% of full load	
Short Circuit Protection (Note 3)	Hiccup, auto recovery	
Overvoltage Protection	3.3V output	3.9V
	5V output	6.2V
	12V output	15V
	15 output	18V
Operating Temperature	-40°C ~ 85°C (without derating) 85°C ~ 95°C (with derating - see curve)	
Storage Temperature	-40°C ~ 105°C	
Thermal Shock	MIL-STD-810F	
Relative Humidity (non condensing)	5% to 95% RH	
Transient Response (25% step load change)	250µS	
Isolation Voltage (Min)	1600Vdc	
Isolation Resistance	$10^9 \Omega$	
Isolation Capacitance (Max)	4000 pF	
MTBF BELLCORE TR-NWT-000332 (Note 1)	147,200 hrs	
Vibration	MIL-STD-810F	
Conducted and Radiated Emissions	EN55022, Class B	
Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A	
Safety	CE	
Size (H x W x D)	57.6 x 24.5 x 125.0 mm	
Weight	147.5g	
Connector	Screw Terminal	
Cooling	Convection	
Front Panel LED	Output DC good	
Warranty yrs	2	

Notes: See page 2

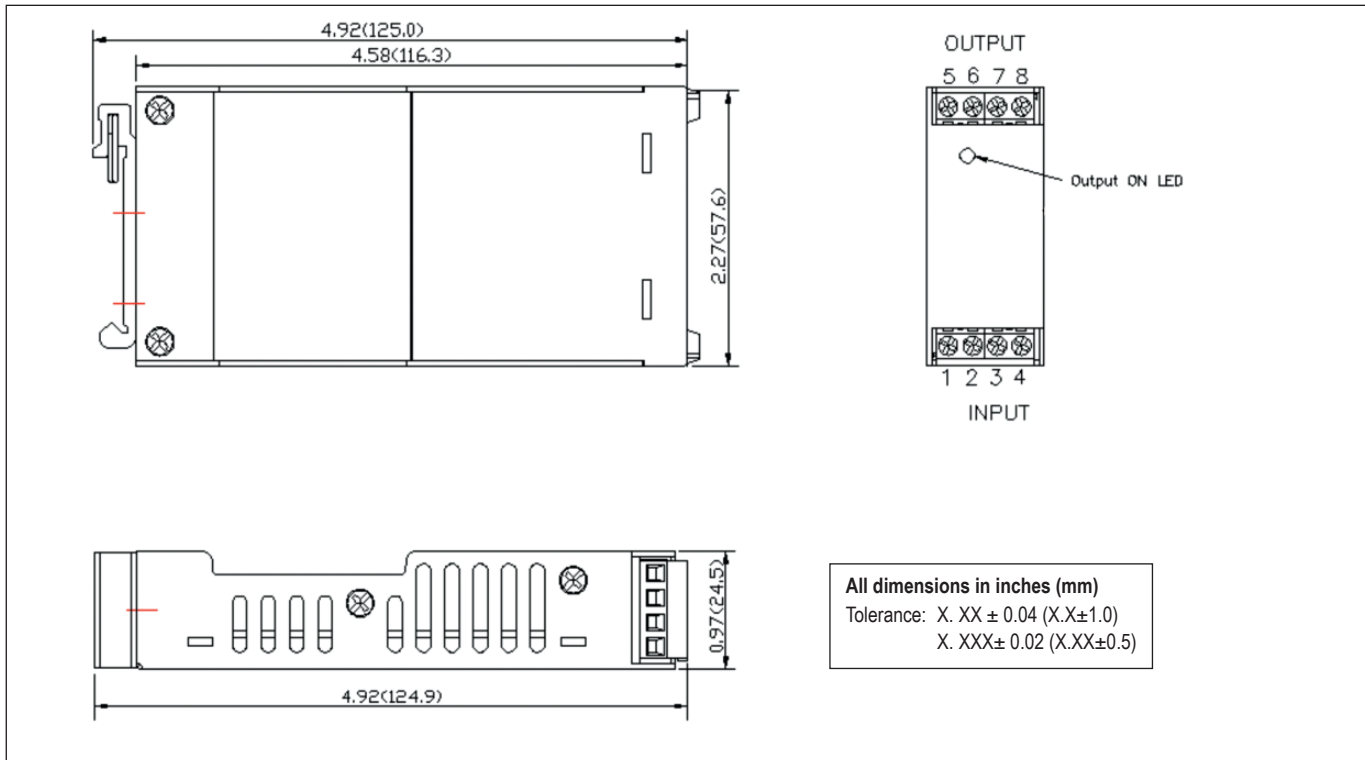
Model Selector

Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load (5)	Eff % (3)	Capacitor Load Max (6)
DPX15-24WS3P3	9.5 - 36 VDC	3.3 VDC	0mA	4500mA	50mVp-p	52mA	773mA	84	147000μF
DPX15-24WS05	9.5 - 36 VDC	5 VDC	0mA	3000mA	50mVp-p	67mA	772mA	85	7200μF
DPX15-24WS5P1	9.5 - 36 VDC	5.1 VDC	0mA	3000mA	50mVp-p	67mA	787mA	85	7200μF
DPX15-24WS12	9.5 - 36 VDC	12 VDC	0mA	1250mA	75mVp-p	26mA	772mA	85	1250μF
DPX15-24WS15	9.5 - 36 VDC	15 VDC	0mA	1000mA	75mVp-p	26mA	772mA	85	800μF
DPX15-24WD05	9.5 - 36 VDC	±5 VDC	0mA	±1500mA	75mVp-p	57mA	772mA	85	±3600μF
DPX15-24WD12	9.5 - 36 VDC	±12 VDC	0mA	±625mA	75mVp-p	35mA	762mA	86	±625μF
DPX15-24WD15	9.5 - 36 VDC	±15 VDC	0mA	±500mA	75mVp-p	35mA	762mA	86	±400μF
DPX15-48WS3P3	18 - 75 VDC	3.3 VDC	0mA	4500mA	50mVp-p	37mA	387mA	84	14700μF
DPX15-48WS05	18 - 75 VDC	5 VDC	0mA	3000mA	50mVp-p	38mA	381mA	86	7200μF
DPX15-48WS5P1	18 - 75 VDC	5.1 VDC	0mA	3000mA	50mVp-p	38mA	389mA	86	7200μF
DPX15-48WS12	18 - 75 VDC	12 VDC	0mA	1250mA	75mVp-p	18mA	386mA	85	1250μF
DPX15-48WS15	18 - 75 VDC	15 VDC	0mA	1000mA	75mVp-p	18mA	386mA	85	800μF
DPX15-48WD05	18 - 75 VDC	± 5 VDC	0mA	± 1500mA	75mVp-p	37mA	381mA	86	±3600μF
DPX15-48WD12	18 - 75 VDC	± 12VDC	0mA	± 625mA	75mVp-p	20mA	381mA	86	±625μF
DPX15-48WD15	18 - 75 VDC	± 15 VDC	0mA	± 500mA	75mVp-p	20mA	381mA	86	±400μF

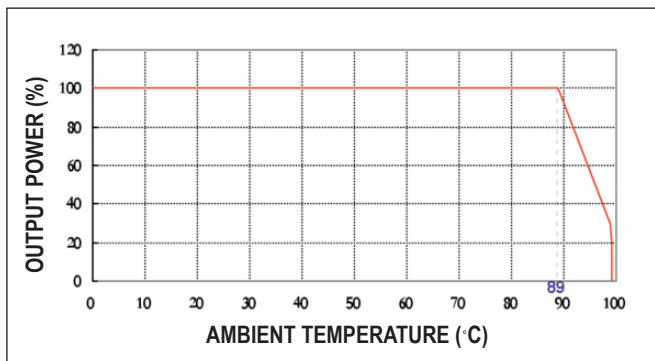
Notes see above

1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard To orderNegative logic ON/OFF control add the suffix-N (Ex:DPX15-48WS05-N)
3. Typical value at nominal input voltage and full load.
4. Typical value at nominal input voltage and no load.
5. Maximum value at nominal input voltage and full load.
6. Test by minimum Vin and constant resistive load.

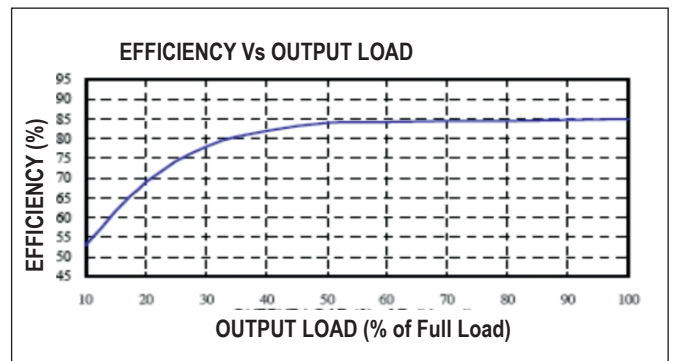
Outline Drawing DPX15W Series



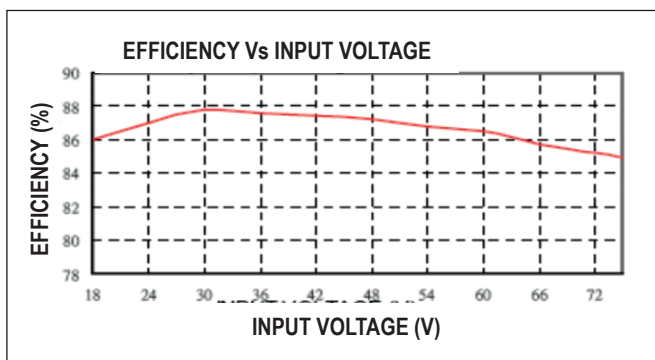
Derating Curve DPX15-48WS05



Efficiency / Load Curve DPX15-48WS05



Efficiency / Input Curve DPX15-48WS05



Pinout

PIN	Single	Dual
1	CTRL	CTRL
2	- Input	- Input
3	- Input	- Input
4	+ Input	+ Input
5	NC	NC
6	- Output	- Output
7	+ Output	Common
8	NC	+ Output

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N



DPX20W Series

Single and Dual Output 20W Din Rail Mount
DC-DC Converters

- Single and dual output
- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX20W Features and Benefits

Features

- CE Approval
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

ITEMS	DPX20W	
	24V nominal input 9.5-36VDC	48V nominal input 18-75VDC
Rated Input voltage range	400kHz, typ	
Switching Frequency	See Table	
Maximum Input Current	24V input, 6A Fuse	48V input, 4A fuse
Input Fuse	See Table	
Max Output Power (W)	Single/Dual $\pm 1.0\%$ / Single (3.3V) $\pm 1.5\%$	
Voltage Accuracy	Single output $\pm 10\%$	
Voltage Adjustment (Note 7)	Single $\pm 0.2\%$ / Dual $\pm 0.5\%$	
Line Regulation (LL to HL at full load Single)	20MHz bandwidth See table	
Ripple and Noise	Power up 100mS, typ (remote On/Off 20mS, typ)	
Start up time (Nominal Vin and constant resistive load)	POSITIVE Logic: ON: Open or 3-12V, OFF Short or <1.2V	
Remote on/off (option) (Note 2)	NEGATIVE Logic: ON: Short or <1.2V, OFF Open or 3-12V	
Efficiency	See Table	
Over Current Protection, Factory Set	Maximum, 150% of full load	
Short Circuit Protection (Note 3)	Hiccup, auto recovery	
Overvoltage Protection	3.3V output	3.9V
	5V output	6.2V
	12V output	15V
	15 output	18V
Operating Temperature	-40°C ~ 78°C (without derating) 78°C ~ 91°C (with derating - see curve)	
Storage Temperature	-40°C ~ 105°C	
Thermal Shock	MIL-STD-810F	
Relative Humidity (non condensing)	5% to 95% RH	
Transient Response (25% step load change)	250µS	
Isolation Voltage (Min)	1600Vdc	
Isolation Resistance	10 ⁹ Ω	
Isolation Capacitance (Max)	4000 pF	
MTBF BELLCORE TR-NWT-000332 (Note 1)	139,300 hrs	
Vibration	MIL-STD-810F	
Conducted and Radiated Emissions	EN55022, Class B	
Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A	
Safety	CE	
Size (H x W x D)	57.6 x 24.5 x 125.0 mm	
Weight	147.5g	
Connector	Screw Terminal	
Cooling	Convection	
Front Panel LED	Output DC good	
Warranty yrs	2	

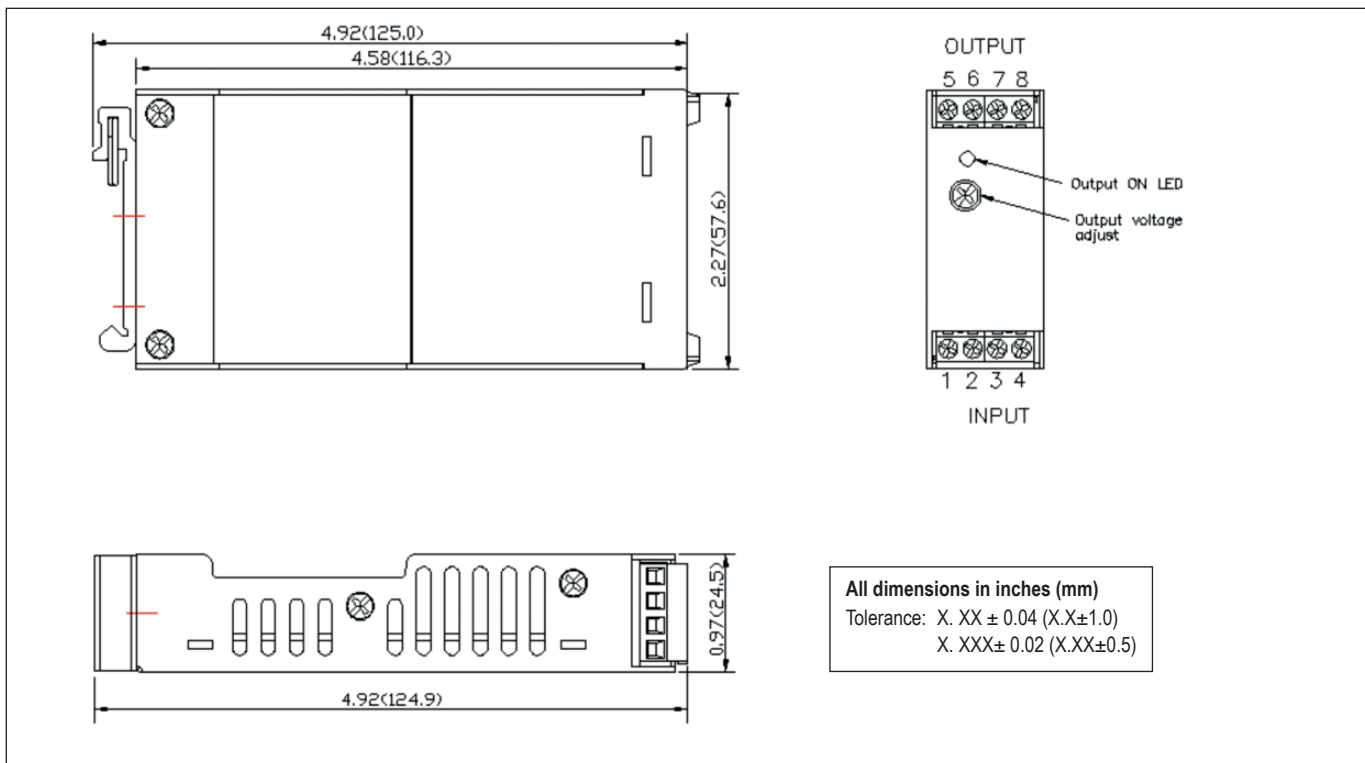
Notes: See page 2

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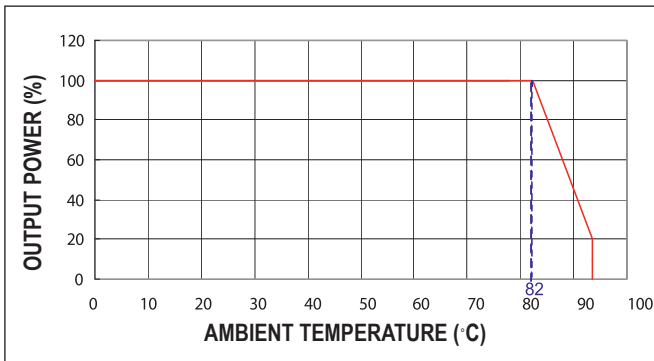
1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard. To order Negative logic ON/OFF control add the suffix-N (Ex:DPX20-48WS05-N)
3. Typical value at nominal input voltage and full load.
4. Typical value at nominal input voltage and no load.
5. Maximum value at nominal input voltage and full load.
6. Test by minimum Vin and constant resistive load.
7. Single outputs have a potentiometer to adjust the output voltage.

Model Selector									
Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load 5	Eff % (3)	Capacitor Load Max (6)
DPX20-24WS3P3	9.5 - 36 VDC	3.3 VDC	0mA	5500mA	60mVp-p	52mA	957mA	83	18000μF
DPX20-24WS05	9.5 - 36 VDC	5 VDC	0mA	4000mA	75mVp-p	67mA	1016mA	86	9600μF
DPX20-24WS12	9.5 - 36 VDC	12 VDC	0mA	1670mA	75mVp-p	26mA	1043mA	84	1650μF
DPX20-24WS15	9.5 - 36 VDC	15 VDC	0mA	1330mA	75mVp-p	27mA	1039mA	84	1050μF
DPX20-24WD05	9.5 - 36 VDC	± 5 VDC	0mA	±2000mA	100mVp-p	59mA	1016mA	86	±2000μF
DPX20-24WD12	9.5 - 36 VDC	±12 VDC	0mA	±833mA	100mVp-p	34mA	1028mA	85	±825μF
DPX20-24WD15	9.5 - 36 VDC	±15 VDC	0mA	±667mA	100mVp-p	35mA	1029mA	85	±525μF
DPX20-48WS3P3	18 - 75 VDC	3.3 VDC	0mA	5500mA	60mVp-p	37mA	473mA	83	18000μF
DPX20-48WS05	18 - 75 VDC	5 VDC	0mA	4000mA	75mVp-p	37mA	508mA	86	9600μF
DPX20-48WS12	18 - 75 VDC	12 VDC	0mA	1670mA	75mVp-p	18mA	515mA	85	1650μF
DPX20-48WS15	18 - 75 VDC	15 VDC	0mA	1330mA	75mVp-p	18mA	513mA	85	1050μF
DPX20-48WD05	18 - 75 VDC	± 5 VDC	0mA	±2000mA	100mVp-p	37mA	502mA	87	±4800μF
DPX20-48WD12	18 - 75 VDC	± 12 VDC	0mA	±833mA	100mVp-p	20mA	508mA	86	±825μF
DPX20-48WD15	18 - 75 VDC	± 15 VDC	0mA	±667mA	100mVp-p	20mA	508mA	86	±525μF

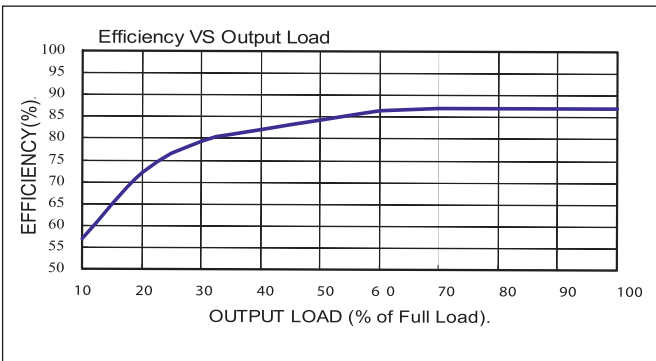
Outline Drawing DPX20W Series



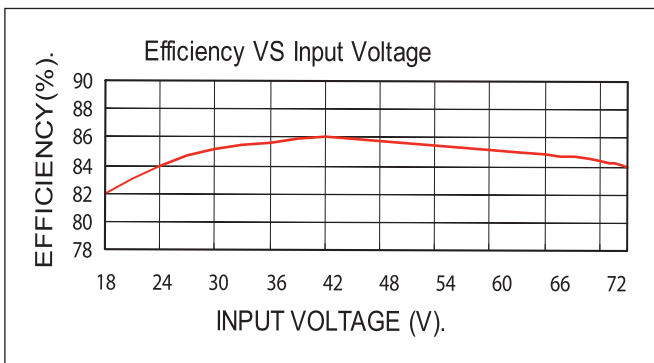
Derating Curve DPX20-48WS05



Efficiency / Load Curve DPX20-48WS05



Efficiency / Input Voltage Curve DPX20-48WS05



Pinout

PIN	Single	Dual
1	CTRL	CTRL
2	- Input	- Input
3	- Input	- Input
4	+ Input	+ Input
5	NC	NC
6	- Output	- Output
7	+ Output	Common
8	NC	+ Output

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N



DPX30W Series

Single and Dual Output 30W Din Rail Mount
DC-DC Converters

- Single and dual output
- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX30W Features and Benefits

Features

- CE Approval
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

Specifications	
ITEMS	DPX30W
Rated Input voltage range	24V nominal input 10-40VDC 48V nominal input 18-75VDC
Switching Frequency	300kHz, typ
Maximum Input Current	See Table
Input Fuse	24V input, 6A Fuse 48V input, 4A fuse
Max Output Power (W)	See Table
Voltage Accuracy	Single/Dual $\pm 1.0\%$ / Single (3.3V) $\pm 1.5\%$
Voltage Adjustment (Note 7)	Single output $\pm 10\%$
Minimum Load	N/A
Line Regulation (LL to HL at full load)	Single $\pm 0.5\%$ / Dual $\pm 0.5\%$
Ripple and Noise	20MHz bandwidth See table
Start up time (Nominal Vin and constant resistive load)	Power up 100mS, typ
Remote on/off (option) (Note 2)	POSITIVE Logic: ON: Open or 3-12V, OFF Short or <1.2V NEGATIVE Logic: ON: Short or <1.2V, OFF Open or 3-12V
Efficiency	See Table
Over Current Protection, Factory Set	Maximum, 150% of full load
Short Circuit Protection (Note 3)	Hiccup, auto recovery
Overvoltage Protection	3.3V output 3.9V 5V output 6.2V 12V output 15V 15 output 18V
Operating Temperature	-40°C ~ 67°C (without derating) 67°C ~ 90°C (with derating - see curve)
Storage Temperature	-40°C ~ 105°C
Thermal Shock	MIL-STD-810F
Relative Humidity (non condensing)	5% to 95% RH
Transient Response (25% step load change)	250µS
Isolation Voltage (Min)	1600Vdc
Isolation Resistance	$10^9 \Omega$
Isolation Capacitance (Max)	4000 pF
MTBF BELLCORE TR-NWT-000332 (Note 1)	112,400 hrs
Vibration	MIL-STD-810F
Conducted and Radiated Emissions	EN55022, Class B
Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A
Safety	CE
Size (H x W x D)	57.6 x 24.5 x 125.0 mm
Weight	170g
Connector	Screw Terminal
Cooling	Convection
Front Panel LED	Output DC good
Warranty yrs	2

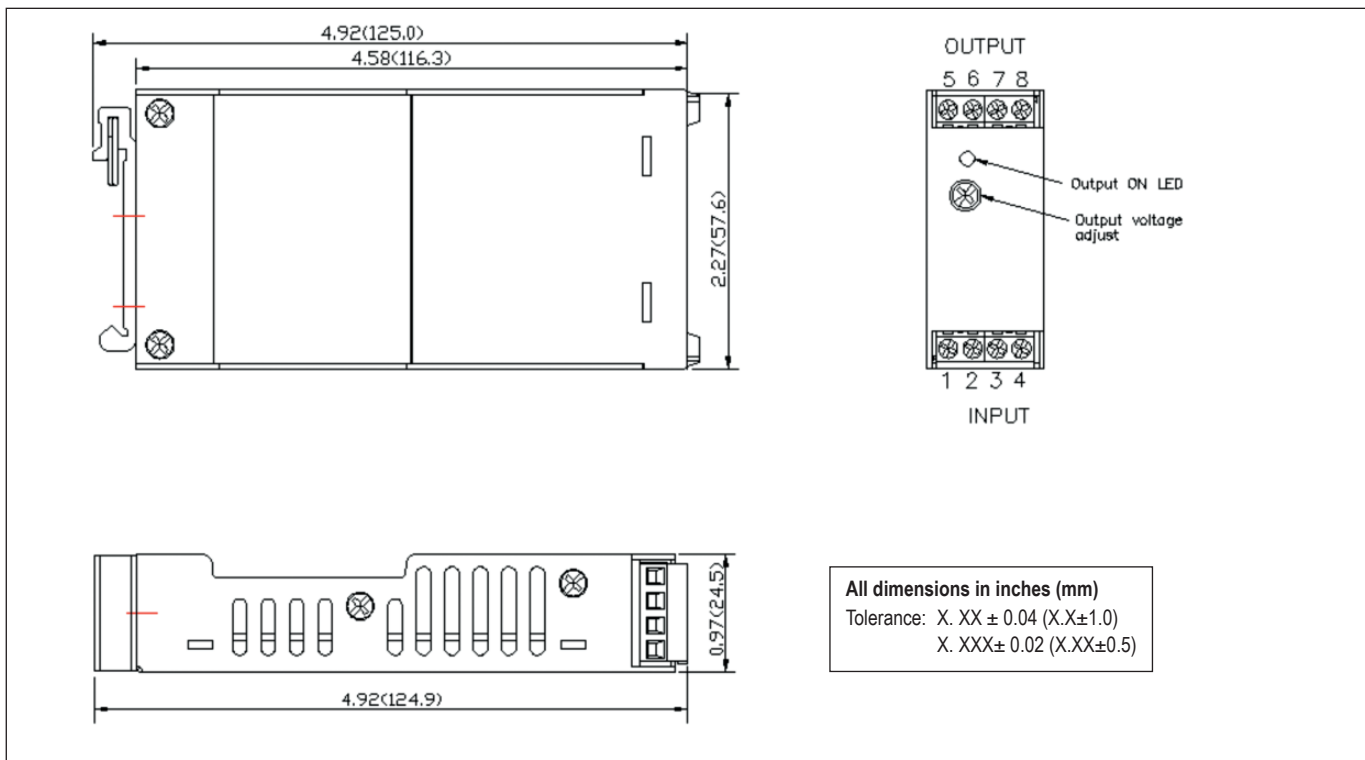
Notes: See page 2

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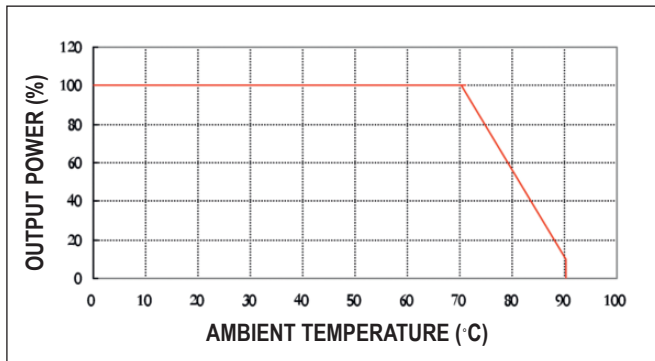
1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard. To order Negative logic ON/OFF control add the suffix-N (Ex:DPX30-48WS05-N)
3. Typical value at nominal input voltage and full load.
4. Typical value at nominal input voltage and no load.
5. Maximum value at nominal input voltage and full load.
6. Test by minimum Vin and constant resistive load.
7. Single outputs have a potentiometer to adjust the output voltage.

Model Selector									
Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load (5)	Eff. % (3)	Capacitor Load Max (6)
DPX30-24WS3P3	10 - 40 VDC	3.3 VDC	0mA	6000mA	60mVp-p	52mA	1031mA	84	19500μF
DPX30-24WS05	9.5 - 36 VDC	5 VDC	0mA	6000mA	75mVp-p	67mA	1563mA	84	10200μF
DPX30-24WS12	10 - 40 VDC	12 VDC	0mA	2500mA	100mVp-p	69mA	1563mA	84	3300μF
DPX30-24WS15	10 - 40 VDC	15 VDC	0mA	2000mA	100mVp-p	75mA	1543mA	85	1100μF
DPX30-24WD12	10 - 40 VDC	± 12 VDC	0mA	± 1250mA	100mVp-p	34mA	1623mA	81	±1000μF
DPX30-24WD15	10 - 40 VDC	± 15 VDC	0mA	±1000mA	100mVp-p	40mA	1603mA	82	±680μF
DPX30-48WS3P3	18 - 75 VDC	3.3 VDC	0mA	6000mA	60mVp-p	32mA	509mA	85	19500μF
DPX30-48WS05	18 - 75 VDC	5 VDC	0mA	6000mA	75mVp-p	32mA	762mA	86	10200μF
DPX30-48WS12	18 - 75 VDC	12 VDC	0mA	2500mA	100mVp-p	38mA	772mA	85	3300μF
DPX30-48WS15	18 - 75 VDC	15 VDC	0mA	2000mA	100mVp-p	48mA	762mA	86	1100μF
DPX30-48WD12	18 - 75 VDC	± 12 VDC	0mA	±1250mA	100mVp-p	28mA	791mA	83	±1000μF
DPX30-48WD15	18 - 75 VDC	± 15 VDC	0mA	±1000mA	100mVp-p	28mA	781mA	84	±680μF

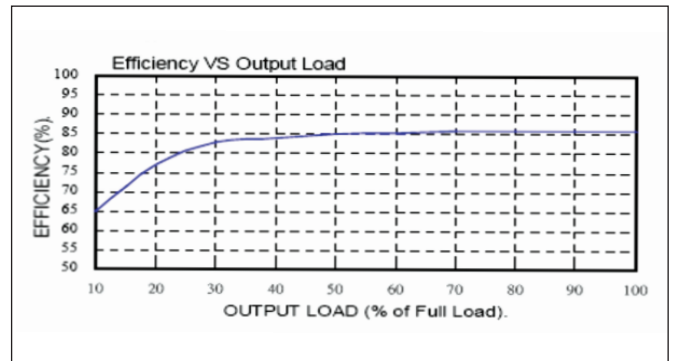
Outline Drawing DPX30W Series



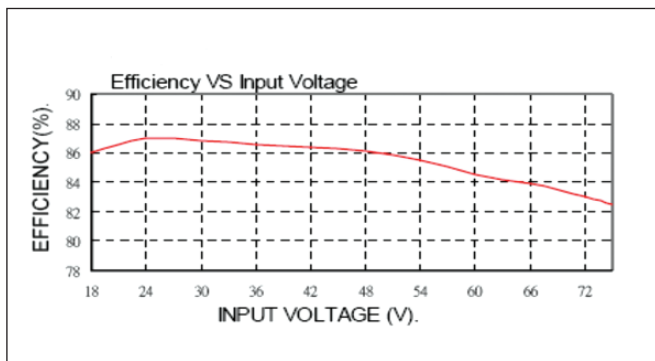
Derating Curve DPX30-48WS05



Efficiency / Load Curve DPX30-48WS05



Efficiency / Input Curve DPX30-48WS05



Pinout

PIN	Single	Dual
1	CTRL	CTRL
2	- Input	- Input
3	- Input	- Input
4	+ Input	+ Input
5	NC	NC
6	- Output	- Output
7	+ Output	Common
8	NC	+ Output

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N



DPX40W Series

Single and Dual Output 40W Din Rail Mount
DC-DC Converters

- Single and dual output
- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX40W Features and Benefits

Features

- CE Approvals
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

ITEMS		DPX40W	
Rated Input voltage range		24V nominal input 9.5-36VDC	48V nominal input 18-75VDC
Switching Frequency		300kHz, typ	
Maximum Input Current		See Table	
Max Output Power (W)		See Table	
Voltage Accuracy		Single/Dual $\pm 1.0\%$ / Single (3.3V) $\pm 1.5\%$	
Voltage Adjustment (Note 7)		Single output $\pm 10\%$	
Minimum Load		N/A	
Line Regulation (LL to HL at full load)		Single at $\pm 0.5\%$	
Ripple and Noise		20MHz bandwidth See table	
Start up time (Nominal Vin and constant resistive load)		Power up 100mS, typ (remote 20mS, typ)	
Remote on/off (option) (Note 2)		POSITIVE Logic: ON: Open or 3-12V, OFF Short or <1.2V NEGATIVE Logic: ON: Short or <1.2V, OFF Open or 3-12V	
Efficiency		See Table	
Over Current Protection, Factory Set		Maximum, 150% of full load	
Short Circuit Protection (Note 3)		Hiccup, auto recovery	
Overvoltage Protection		3.3V output 5V output 12V output 15 output	3.9V 6.2V 15V 18V
Operating Temperature		-40°C ~ 66°C (without derating) 66°C ~ 87°C (with derating - see curve)	
Storage Temperature		-40°C ~ 105°C	
Thermal Shock		MIL-STD-810F	
Relative Humidity (non condensing)		5% to 95% RH	
Transient Response (25% step load change)		250μS	
Isolation Voltage (Min)		1600Vdc	
Isolation Resistance		10 ⁹ Ω	
Isolation Capacitance (Max)		4000 pF	
MTBF BELLCORE TR-NWT-000332 (Note 1)		968,800 hrs	
Vibration		MIL-STD-810F	
Conducted and Radiated Emissions		EN55022, Class B	
Immunity		EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A	
Safety		CE	
Size (H x W x D)		57.6 x 24.5 x 125.0 mm	
Weight		182g	
Connector		Screw Terminal	
Cooling		Convection	
Front Panel LED		Output DC good	
Warranty yrs		2	

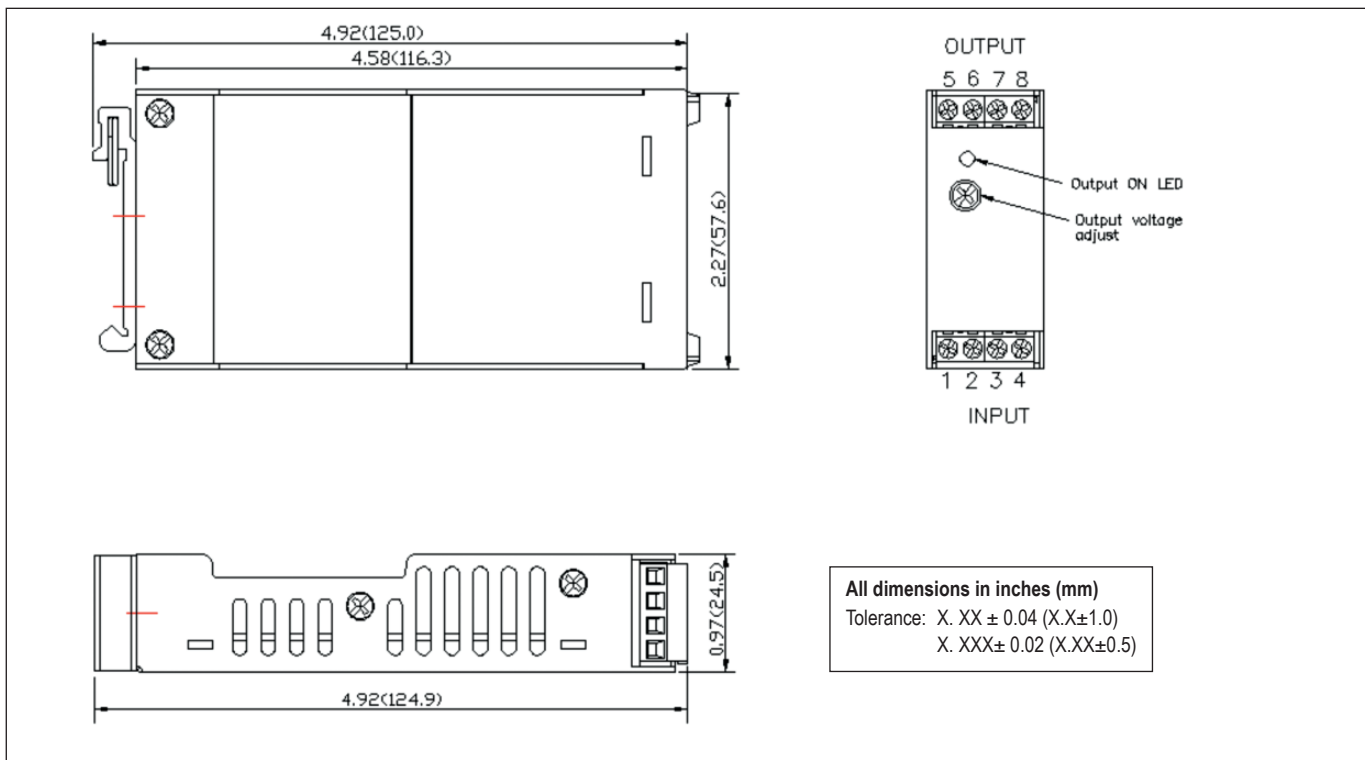
Notes: See page 2

Notes

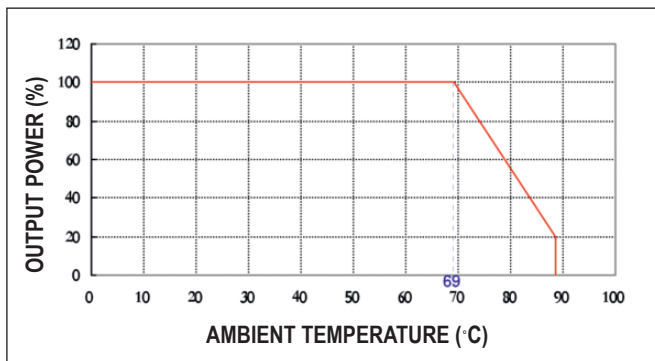
1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard. To order Negative logic ON/OFF control add the suffix-N (Ex:DPX40-48WS05-N)
3. Typical value at nominal input voltage and full load.
4. Typical value at nominal input voltage and no load.
5. Maximum value at nominal input voltage and full load.
6. Test by minimum Vin and constant resistive load.
7. Single outputs have a potentiometer to adjust the output voltage.

Model Selector									
Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load (5)	Eff. % (3)	Capacitor Load Max (6)
DPX40-24WS3P3	9.5 - 36 VDC	3.3 VDC	0mA	10000mA	50mVp-p	83mA	1741mA	83	25750μF
DPX40-24WS05	9.5 - 36 VDC	5 VDC	0mA	8000mA	50mVp-p	103mA	2083mA	84	13600μF
DPX40-24WS12	9.5 - 36 VDC	12 VDC	50mA	3333mA	75mVp-p	55mA	2083mA	84	2360μF
DPX40-24WS15	9.5 - 36 VDC	15 VDC	50mA	2666mA	75mVp-p	56mA	2083mA	84	1510μF
DPX40-24WD12	9.5 - 36 VDC	± 12 VDC	±65mA	±1667 Ma	120mVp-p	65mA	2110mA	83	±1200μF
DPX40-24WD15	9.5 - 36 VDC	± 15 VDC	±50mA	±1333mA	150mVp-p	76mA	2110mA	83	±750μF
DPX40-48WS3P3	18 - 75 VDC	3.3 VDC	0mA	10000mA	50mVp-p	63mA	859mA	84	25750μF
DPX40-48WS05	18 - 75 VDC	5 VDC	0mA	8000mA	50mVp-p	68mA	1029mA	86	13600μF
DPX40-48WS12	18 - 75 VDC	12 VDC	50mA	3333mA	75mVp-p	34mA	1029mA	85	2360μF
DPX40-48WS15	18 - 75 VDC	15 VDC	50mA	2666mA	75mVp-p	34mA	1029mA	85	1510μF
DPX40-48WD12	18 - 75 VDC	± 12 VDC	±65mA	±1667mA	120mVp-p	34mA	1042mA	84	±1200μF
DPX40-48WD15	18 - 75 VDC	± 15 VDC	±60mA	±1333mA	150mVp-p	34mA	1042mA	84	±750μF

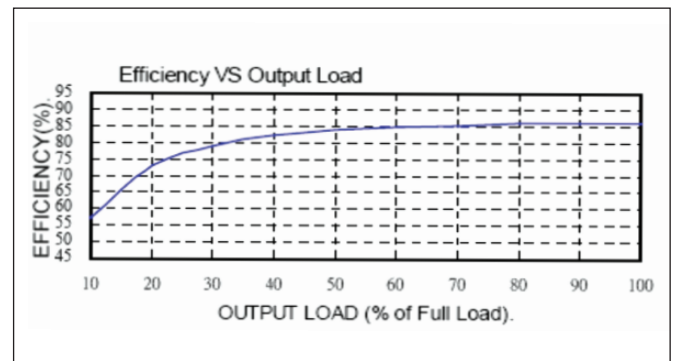
Outline Drawing DPX40W Series



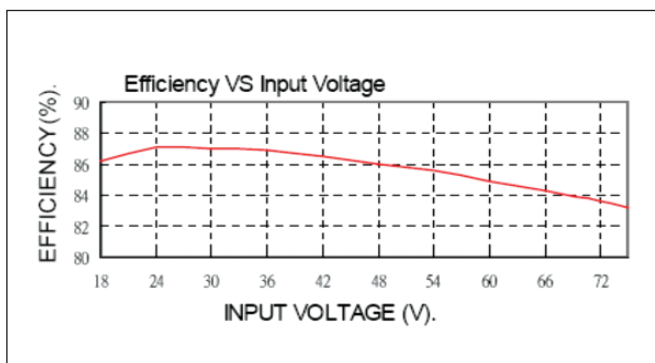
Derating Curve DPX40-48WS05



Efficiency / Load Curve DPX40-48WS05



Efficiency / Input Curve DPX40-48WS05



Pinout

PIN	Single	Dual
1	CTRL	CTRL
2	- Input	- Input
3	- Input	- Input
4	+ Input	+ Input
5	NC	NC
6	- Output	- Output
7	+ Output	Common
8	NC	+ Output

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N



- Output DC-OK indicator Industry Control System
- Triple Output
- Meet EN55022 Class B Semiconductor Equipment
- Internal input fuse protection
- Internal input reverse polarity protection
- Internal input in-rush current limit circuit
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 OR TS-35/15
- I/O-isolation 1600 VDC

DPX40W Triple Output Series

40W Din Rail Mount DC-DC Converters

Key Market Segments & Applications

Communication System, Factory Automation, Semiconductor Equipment

DPX40W Triple Output Series Features and Benefits

Features

- CE Approvals
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

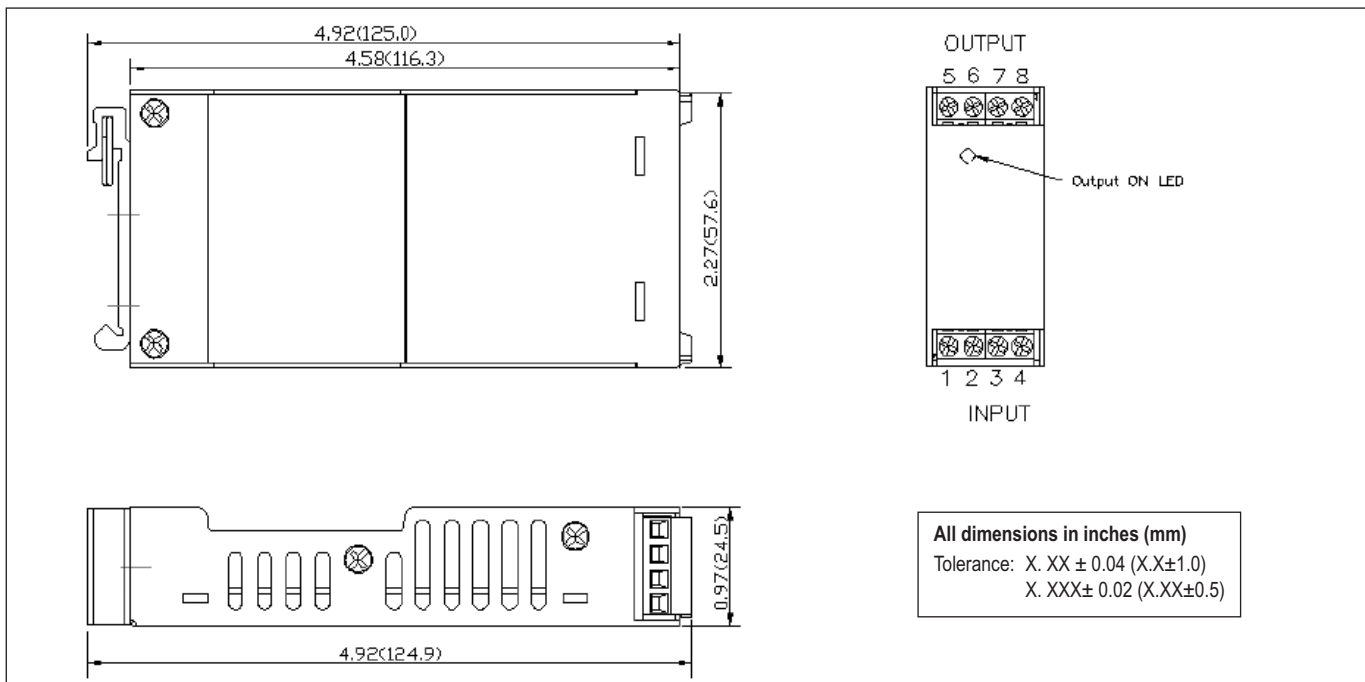
ITEMS	DPX40W Triple Output
Rated Input voltage range	12V nominal input 9.5-18VDC 24V nominal input 18-36VDC 48V nominal input 36-75VDC
Frequency	300kHz, typ
Maximum Input Current	See Table
Max Output Power (W)	See Table
Voltage Accuracy	Main $\pm 2\%$ Auxillary $\pm 5\%$
Minimum Load (6)	See table
Voltage Adjustment	Factory set
Line Regulation	LL to HL at full load Main $\pm 1\%$, LL to HL at full load Auxillary $\pm 5\%$
Load regulation (7)	LL to HL at full load Main $\pm 2.5\%$, LL to HL at full load Auxillary $\pm 5\%$
Load (cross regulation) (8)	Main $\pm 2.5\%$
Ripple and Noise	20MHz bandwidth See table
Start up time (Nominal Vin and constant resistive load)	Power up 100mS, typ "Remote 20mS, typ
Remote on/off (option) (2)	ON: Open or 3-12V, OFF Short or $<1.2V$
Efficiency	See Table
Over Current Protection, Factory Set	Maximum, 150% of full load
Short Circuit Protection	Hiccup, auto recovery
Overvoltage Protection	3.3V output 3.9V 5V output 6.2V 12V output 15V 15 output 18V
Operating Temperature	-40°C ~ 69°C (without derating) +69°C ~ +90°C (with derating - see curve)
Storage Temperature	-40°C ~ +105°C
Thermal Shock	MIL-STD-810F
Relative Humidity (non condensing)	5% to 95% RH
Transient Response (25% step load change)	250 μ S
MTBF BELLCORE TR-NWT-000332 (1)	1,184,000 hrs
MIL-HDBK-217F (1)	358,400 hrs
Vibration	MIL-STD-810F
Conducted and Radiated Emissions	EN55022
Immunity	EN61000-4-2, Perf. Criteria A", "EN61000-4-3, Perf. Criteria A", EN61000-4-4 Perf. Criteria A, EN61000-4-5 Perf. Criteria A, EN61000-4-6 Perf. Criteria ASafety CE
Size (H x W x D)	57.6 x 24.5 x 125.0 mm
Weight	182g
Connector	Screw Terminal
Cooling	Convection
Front Panel LED	Output DC good
Warranty	2 Years

Notes:

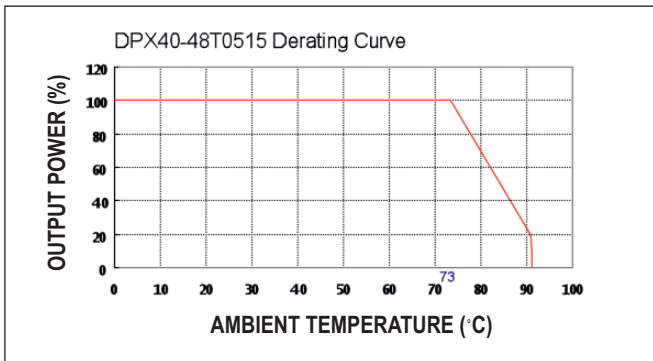
1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C MIL-HDBK-217F Notice2 @Ta=25 °C, Full load (Ground, Benign, controlled environment).
2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard To order negative logic ON/OFF control add the suffix-N (Ex:DPX40-48WS05-N)
3. Typical value at nominal input voltage and full load.
4. Typical value at nominal input voltage and no load.
5. Maximum value at nominal input voltage and full load.
6. The output requires a minimum load. **Note:** Under no load conditions the unit will not be damaged, however, not all specifications will be met.
7. Load regulation for triple output: Main output (V1): 10% to 100% with 10% to 100% balanced on auxiliaries. Auxiliary outputs (V2 and V3): 10% to 100% balanced on all outputs.
8. Cross regulation for triple outputs: Main output 100% load, auxiliary 100% , other auxiliary 25% to 100%. Auxiliary outputs (V2 and V3): Main output 100% load, auxiliary 100%, other auxiliary 25% to 100% or main output 25%, auxiliary output 25%, other auxiliary 25% to 100%.
9. Test by minimum Vin and constant resistive load.

Model Selector									
Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Curr No Load (4)	Input Curr Full Load (5)	Eff. % (3)	Capacitor Load Max (9)
DPX40-12T3312	9.5 - 18VDC	3.3 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	222mA	3223mA	80	13000 / 330µF
DPX40-12T3315	9.5 - 18VDC	3.3 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	237mA	3158mA	80	13000 / 110µF
DPX40-12T0512	9.5 - 18VDC	5 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	287mA	4231mA	82	6800 / 330µF
DPX40-12T0515	9.5 - 18VDC	5 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	287mA	4167mA	82	6800 / 110µF
DPX40-24T3312	18 - 36VDC	3.3 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	67mA	1571mA	82	13000 / 330µF
DPX40-24T3315	18 - 36VDC	3.3 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	67mA	1538mA	82	13000 / 110µF
DPX40-24T0512	18 - 36VDC	5 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	67mA	2063mA	84	6800 / 330µF
DPX40-24T0515	18 - 36VDC	5 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	77mA	2031mA	84	6800 / 110µF
DPX40-48T3312	36 - 75VDC	3.3 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	42mA	766mA	84	13000 / 330µF
DPX40-48T3315	36 - 75VDC	3.3 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	42mA	750mA	84	13000 / 110µF
DPX40-48T0512	36 - 75VDC	5 / ±12VDC	600mA / ±40mA	6000mA / ±400mA	50m / 75Vp-p	42mA	1006mA	86	6800 / 330µF
DPX40-48T0515	36 - 75VDC	5 / ±15VDC	600mA / ±30mA	6000mA / ±300mA	50m / 75Vp-p	47mA	991mA	86	6800 / 110µF

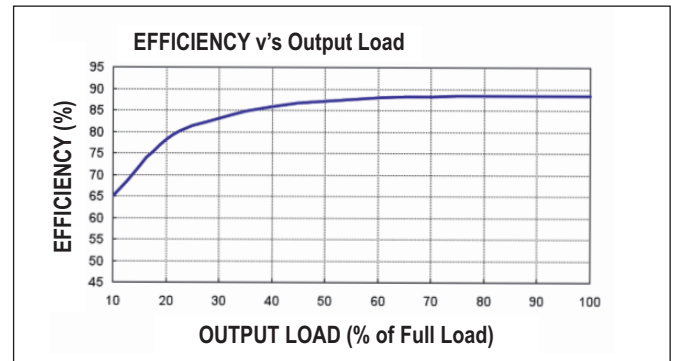
Outline Drawing DPX40W Triple Output Series



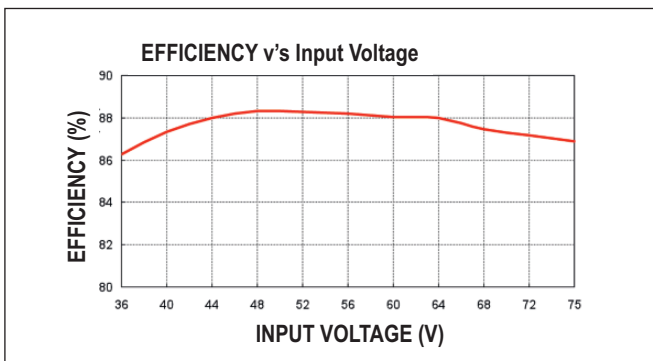
Derating Curve DPX40-48T0515



Efficiency / Load Curve DPX40-48T0515



Efficiency / Input Curve DPX40-48T0515



Pinout

PIN	Function
1	CTRL
2	- Input
3	- Input
4	+ Input
5	+ Auxiliary
6	Common
7	- Auxiliary
8	+ Output

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N

Screw terminals - wire range from 14 to 18 AWG



- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

DPX60 Series

Single Output 60W Din Rail Mount
DC-DC Converters

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX60 Features and Benefits

Features

- CE Approvals

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

ITEMS		DPX60	
Rated Input voltage range		24V nominal input 18-36VDC	48V nominal input 36-75VDC
Switching Frequency		300kHz, typ	
Maximum Input Current		See Table	
Max Output Power (W)		See Table	
Voltage Accuracy		Single/Dual $\pm 1.0\%$ / Single (3.3V) $\pm 1.5\%$	
Voltage Adjustment	(Note 7)	Single output $\pm 10\%$	
Minimum Load		N/A	
Line Regulation (LL to HL at full load)		Single at $\pm 0.5\%$	
Ripple and Noise		20MHz bandwidth See table	
Start up time (Nominal Vin and constant resistive load)		Power up 100mS, typ (remote 20mS, typ)	
Remote on/off (option)	(Note 2)	POSITIVE Logic: ON: Open or 3-12V, OFF Short or <1.2V NEGATIVE Logic: ON: Short or <1.2V, OFF Open or 3-12V	
Efficiency		See Table	
Over Current Protection, Factory Set		Maximum, 150% of full load	
Short Circuit Protection	(Note 3)	Hiccup, auto recovery	
Overvoltage Protection		3.3V output	3.7 VDC - 5.4VDC
		5V output	5.6VDC - 7.0VDC
		12V output	13.5VDC - 20.5VDC
		15 output	16.8VDC - 20.5VDC
Operating Temperature		-40°C ~ 60°C (without derating) 60°C ~ 85°C (with derating - see curve)	
Storage Temperature		-40°C ~ 105°C	
Thermal Shock		MIL-STD-810F	
Relative Humidity (non condensing)		5% to 95% RH	
Transient Response (25% step load change)		250μS	
Isolation Voltage (Min)		1600Vdc	
Isolation Resistance		$10^9 \Omega$	
Isolation Capacitance (Max)		4000 pF	
MTBF BELLCORE TR-NWT-000332	(Note 1)	957,600 hrs	
Vibration		MIL-STD-810F	
Conducted and Radiated Emissions		EN55022, Class B	
Immunity		EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A	
Safety		CE	
Size (H x W x D)		57.6 x 24.5 x 125.0 mm	
Weight		182g	
Connector		Screw Terminal	
Cooling		Convection	
Front Panel LED		Output DC good	
Warranty yrs		2	

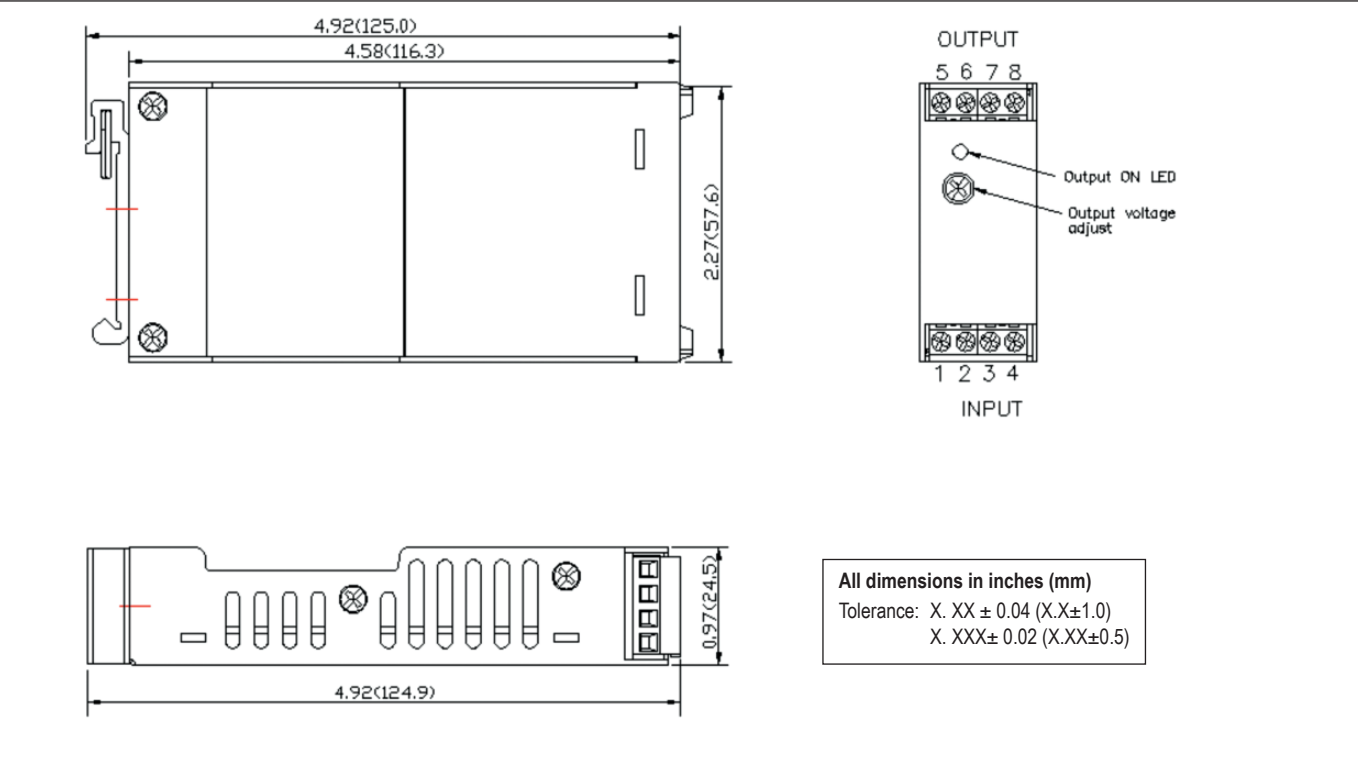
Notes: See page 2

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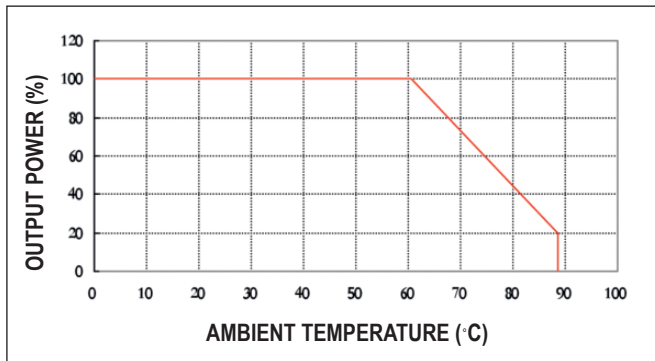
- 1. BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
- 2. The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard. To order Negative logic ON/OFF control add the suffix-N (Ex:DPX60-48S05-N)
- 3. Typical value at nominal input voltage and full load.
- 4. Typical value at nominal input voltage and no load.
- 5. Maximum value at nominal input voltage and full load.
- 6. Test by minimum Vin and constant resistive load.
- 7. Single outputs have a potentiometer to adjust the output voltage.

Model Selector									
Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load (5)	Eff. % (3)	Capacitor Load Max (6)
DPX60-24S3P3	18 - 36 VDC	3.3 VDC	0mA	14000mA	75mVp-p	103mA	2376mA	85	36000µF
DPX60-24S05	18 - 36 VDC	5 VDC	0mA	12000mA	75mVp-p	155mA	3049mA	86	20400µF
DPX60-24S12	18 - 36 VDC	12 VDC	0mA	5000mA	100mVp-p	155mA	3049mA	86	3550µF
DPX60-24S15	18 - 36 VDC	15 VDC	0mA	4000mA	100mVp-p	155mA	3049mA	86	2300µF
DPX60-48S3P3	36 - 75 VDC	3.3 VDC	0mA	14000mA	75mVp-p	83mA	1188mA	85	36000µF
DPX60-48S05	36 - 75 VDC	5 VDC	0mA	12000mA	75mVp-p	104mA	1524mA	86	20400µF
DPX60-48S12	36 - 75 VDC	12 VDC	0mA	5000mA	100mVp-p	104mA	1524mA	86	3550µF
DPX60-48S15	36 - 75 VDC	15 VDC	0mA	4000mA	100mVp-p	104mA	1524mA	86	2300µF

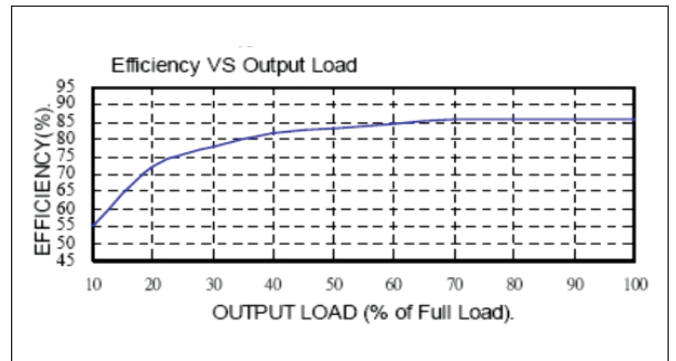
Outline Drawing DPX60 Series



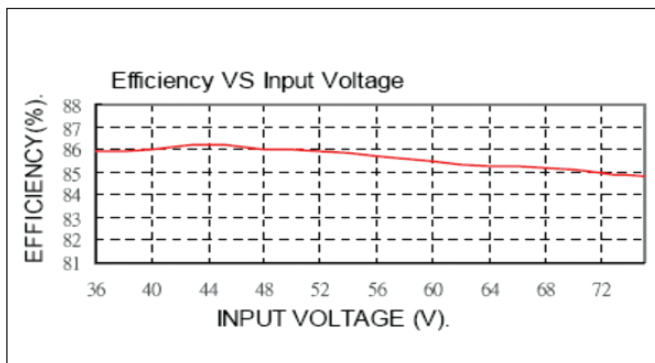
Derating Curve DPX60-48S05



Efficiency / Load Curve DPX60-48S05



Efficiency / Input Curve DPX60-48S05



Pinout	
PIN	Single
1	CTRL
2	- Input
3	- Input
4	+ Input
5	NC
6	- Output
7	+ Output
8	NC

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72
Брянск (4832)59-03-52
Вологда (8172)26-41-59
Иваново (4932)77-34-06
Калининград (4012)72-03-81
Киров (8332)68-02-04
Курск (4712)77-13-04
Москва (495)268-04-70
Нижний Новгород (831)429-08-12
Орел (4862)44-53-42
Пермь (342)205-81-47
Самара (846)206-03-16
Смоленск (4812)29-41-54
Тверь (4822)63-31-35
Тюмень (3452)66-21-18
Челябинск (351)202-03-61

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Воронеж (473)204-51-73
Ижевск (3412)26-03-58
Калуга (4842)92-23-67
Краснодар (861)203-40-90
Липецк (4742)52-20-81
Мурманск (8152)59-64-93
Новокузнецк (3843)20-46-81
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Ростов-на-Дону (863)308-18-15
Санкт-Петербург (812)309-46-40
Сочи (862)225-72-31
Томск (3822)98-41-53
Ульяновск (8422)24-23-59
Череповец (8202)49-02-64

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Магнитогорск (3519)55-03-13
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Пенза (8412)22-31-16
Рязань (4912)46-61-64
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Уфа (347)229-48-12
Ярославль (4852)69-52-93

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